

# The Smarter way to Characterize Components



**NEW**



## LCR-8200 Series

### High Frequency LCR Meter

- Wide Test Frequency 10Hz ~ 30MHz/20MHz/10MHz/5MHz/1MHz
- 7" LCD color Display
- 0.08% Basic Accuracy
- Displaying Four Measurement Results Simultaneously From 17 Selectable Measurement Parameters Freely
- 15 Steps List Measurement
- Two Curves Sweep Mode
- Internal DC Bias Voltage  $\pm 12V$
- USB Storage Available
- ALC Function Available
- Standard Interfaces : RS-232C, USB Host/Device, LAN, GPIB and Handler
- Universal Power Input



#### Diverse Meas. Item & Display

Four Displayed items can be selected from 17 measurement parameters freely



#### Two Curves Graphic

7" color display, under graphic mode is capable to display two parameters sweep curve

**GW INSTEK**  
Simply Reliable

## SPECIFICATIONS

	LCR-8230	LCR-8220	LCR-8210	LCR-8205	LCR-8201
<b>TEST FREQUENCY</b>	DC, 10Hz~30MHz; 6 Digits, $\pm 0.0007\%$	DC, 10Hz~20MHz; 6 Digits, $\pm 0.0007\%$	DC, 10Hz~10MHz; 6 Digits, $\pm 0.0007\%$	DC, 10Hz~5MHz; 6 Digits, $\pm 0.0007\%$	DC, 10Hz~1MHz; 6 Digits, $\pm 0.0007\%$
<b>OUTPUT IMPEDANCE</b>	25 $\Omega$ / 100 $\Omega$ SELECTABLE				
<b>BASIC ACCURACY</b>	$\pm 0.08\%$				
<b>TEST SPEED</b>	MAX: 2.5ms(>10kHz), FAST: 50ms(>20Hz), MEDIUM: 100ms SLOW: 300ms, SLOW2: 600ms				
<b>TEST SIGNAL LEVEL</b>	AC Voltage 10mV ~ 2Vrms (FREQ. $\leq 1$ MHz), 10mV ~ 1Vrms (FREQ. > 1MHz or FREQ. $\leq 1$ MHz and RO=25 $\Omega$ ) AC Current 100 $\mu$ A ~ 20mA rms (RO=100 $\Omega$ ), 400 $\mu$ A ~ 40mA rms (RO=25 $\Omega$ ) DCR Voltage 1Vdc (40mA max.)				
<b>MEASUREMENT PARAMETERS</b>	Maximum four parameters can be measured and displayed at the same time Impedance (Z), Inductance (Ls / Lp), Capacitance (Cs / Cp), AC Resistance (Rs / Rp), Quality Factor (Q), Dissipation Factor (D), Admittance (Y), Conductance (G), Reactance (X), Phase Angle ( $\theta$ d / $\theta$ r), Susceptance (B), DC Resistance (Rdc)				
<b>LIST MEASUREMENT</b>	Listed Steps 15 Listed Parameters Freq/Vac/Iac/DC Bias/Comp/BIN Trigger AUTO, REPEAT, SINGLE				
<b>SWEEP MEASUREMENT</b>	Swept Graphical Two of measurement parameters Swept Parameters Freq/Vac/Iac, Keep Trace				
<b>OTHER FUNCTIONS</b>	Auto Level Control (ALC) Standard DC Bias 0 ~ $\pm 12$ V Handler PASS, FAIL and OK, NG or BIN 1-9				
<b>OTHER FEATURES</b>	Correction Open/Short/HF Load/Load V/I Monitor Vac, Iac, Vdc, Idc Comparator Value, $\Delta$ , $\Delta\%$ Buzzer OFF, Pass, Fail Average 1 to 64				
<b>DISPLAY</b>	7" LCD color display (800 x 480)				
<b>INTERFACE</b>	USB/GPIB/LAN/RS-232/Handler/USB Host/TRIGGER Input				
<b>POWER SOURCE</b>	AC 100V~240V, 50/60Hz; Consumption: 65VA (max.)				
<b>DIMENSIONS &amp; WEIGHT</b>	346 (W) x 145 (H) x 335 (D) mm; Approx. 3.3kg				

Specifications subject to change without notice.

LCR-8000CD1DS

## ORDERING INFORMATION

LCR-8230 DC, 10Hz~30MHz High Frequency LCR Meter  
LCR-8220 DC, 10Hz~20MHz High Frequency LCR Meter  
LCR-8210 DC, 10Hz~10MHz High Frequency LCR Meter  
LCR-8205 DC, 10Hz~5MHz High Frequency LCR Meter  
LCR-8201 DC, 10Hz~1MHz High Frequency LCR Meter

## ACCESSORIES

User Manual (CD) x 1, AC Power Cord x 1, Test Fixture LCR-06B x 1,  
Safety Sheet x 1

## OPTION ASSESSORIES

LCR-05A Test Fixture for Axial & Radial Lead Components  
(up to 30MHz)

LCR-06B Test Lead with Kelvin clip(4 wire type)

LCR-07 Test Lead with Alligator clip(2 wire type)

LCR-08 Test Fixture(Tweezers) for SMD/Chip Components

LCR-10A Test Fixture for Bottom Electrode Components(up to 30MHz)

LCR-12 Test Lead with Kelvin clip(4 wire type)

LCR-15A Test Fixture for SMD/Chip  
components (up to 30MHz)

GTL-234 RS-232C cable

GTL-248 GPIB Cable

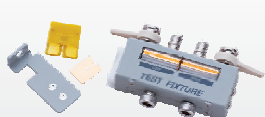
GTL-246 USB Cable

LCR-DB1 External DC Bias Voltage Box

## FREE DOWNLOAD

PC Software LCR Meter

LCR-05A



LCR-06B



LCR-07



LCR-08



LCR-10A



LCR-12



LCR-15A



LCR-DB1



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